

VOLUME XXXVI

AUTHOR INDEX

Author	Title	Page
ADLEMAN, LEONARD & LEIGHTON, FRANK THOMSON	An $O(n^{1/10.89})$ Primality Testing Algorithm.....	261
ARNOLD, DOUGLAS N., DOUGLAS, JIM JR. & THOMÉE, VIDAR	Superconvergence of a Finite Element Approximation to the Solution of a Sobolev Equation in a Single Space Variable	53
ARNON, DENNIS	See: GUNJI, HIROSHI & ARNON, DENNIS.....	281
AVDELAS, G. & HADJIDIMOS, A.	Optimum Accelerated Overrelaxation Method in a Special Case.....	183
BANK, RANDOLPH E. & DUPONT, TODD	An Optimal Order Process for Solving Finite Element Equations.....	35
BARDOS, CLAUDE, BERCOVIER, MICHEL & PIRONNEAU, OLIVIER	The Vortex Method With Finite Elements.....	119
BERCOVIER, MICHEL	See: BARDOS, CLAUDE, BERCOVIER, MICHEL & PIRONNEAU, OLIVIER.....	119
BOJANOV, BORISLAV D.	Uniqueness of the Optimal Nodes of Quadrature Formulae.....	525
de BOOR, CARL & SWARTZ, BLAIR	Collocation Approximation to Eigenvalues of an Ordinary Differential Equation: Numerical Illustrations.....	1
de BOOR, CARL & SWARTZ, BLAIR	Local Piecewise Polynomial Projection Methods for an O.D.E. Which Give High-Order Convergence at Knots.....	21
BORHO, W.	Some Large Primes and Amicable Numbers.....	303
BRENT, RICHARD P. & POLLARD, JOHN M.	Factorization of the Eighth Fermat Number.....	627
CANTOR, DAVID G. & ZASSENHAUS, HANS	A New Algorithm for Factoring Polynomials Over Finite Fields	587
DELFOUR, M., HAGER, W. & TROCHU, F.	Discontinuous Galerkin Methods for Ordinary Differential Equations.....	455
DESCLOUX, JEAN, LUSKIN, MITCHELL & RAPPAZ, JACQUES	Approximation of the Spectrum of Closed Operators: The Determination of Normal Modes of a Rotating Basin.....	137
DIXON, JOHN D.	Asymptotically Fast Factorization of Integers.....	255
DJAOUA, M.	A Method of Calculation of Lifting Flows Around Two-Dimensional Corner-Shaped Bodies.....	405
DOUGLAS, JIM JR.	See: ARNOLD, DOUGLAS N., DOUGLAS, JIM JR. & THOMÉE, VIDAR.....	53
DUPONT, TODD	See: BANK, RANDOLPH E. & DUPONT, TODD.....	35
DYKSEN, WAYNE R.	See: RICE, JOHN R., HOUSTIS, ELIAS N. & DYKSEN, WAYNE R.....	475
ENGQUIST, BJORN & OSHER, STANLEY	One-Sided Difference Approximations for Nonlinear Conservation Laws.....	321
FORNBERG, BENGT	A Vector Implementation of the Fast Fourier Transform Algorithm.....	189
GAUTSCHI, WALTER	Minimal Solutions of Three-Term Recurrence Relations and Orthogonal Polynomials.....	547
GLASHOFF, K. & ROLEFF, K.	A New Method for Chebyshev Approximation of Complex-Valued Functions.....	233
GOLDBERG, MOSHE & TADMOR, EITAN	Scheme-Independent Stability Criteria for Difference Approximations of Hyperbolic Initial-Boundary Value Problems. II	603
GOLDSTEIN, C. I.	The Finite Element Method With Nonuniform Mesh Sizes for Unbounded Domains.....	387
GOTTLIEB, DAVID	The Stability of Pseudospectral-Chebyshev Methods.....	107
GUNJI, HIROSHI & ARNON, DENNIS	On Polynomial Factorization Over Finite Fields.....	281

Author	Title	Page
HADJIDIMOS, A.	See: AVDELAS, G. & HADJIDIMOS, A.....	183
HAGER, W.	See: DELFOUR, M., HAGER, W. & TROCHU, F.....	455
HAGIS, PETER JR.	Unitary Hyperperfect Numbers.....	299
HARTEN, AMIRAM & TALEZER, HILLEL	On a Fourth Order Accurate Implicit Finite Difference Scheme for Hyperbolic Conservation Laws: I. Nonstiff Strongly Dynamic Problems.....	353
HEMKER, P. W. & SCHIPPERS, H.	Multiple Grid Methods for the Solution of Fredholm Integral Equations of the Second Kind.....	215
HENDY, M. D. & JEANS, N. S.	The Jacobi-Perron Algorithm in Integer Form.....	565
HOUSTIS, ELIAS N.	See: RICE, JOHN R., HOUSTIS, ELIAS N. & DYKSEN, WAYNE R.....	475
ISERLES, A.	Quadrature Methods for Stiff Ordinary Differential Systems	171
JEANS, N. S.	See: HENDY, M. D. & JEANS, N. S.....	565
KISHORE, MASAO	On Odd Perfect, Quasiperfect, and Odd Almost Perfect Numbers.....	583
LAFRAMBOISE, J. G.	See: SHEPHERD, M. M. & LAFRAMBOISE, J. G.....	249
LAND, RUDOLF	Computation of Pólya Polynomials of Primitive Permutation Groups.....	267
LAYTON, WILLIAM J.	Estimates Away From a Discontinuity for Dissipative Galerkin Methods for Hyperbolic Equations.....	87
LEHMER, D. H.	On Fermat's Quotient, Base Two.....	289
LEIGHTON, FRANK THOMSON	See: ADLEMAN, LEONARD & LEIGHTON, FRANK THOMSON.....	261
LE ROUX, A. Y.	Stability of Numerical Schemes Solving Quasi-Linear Wave Equations.....	93
LUSKIN, MITCHELL	See: DESCLOUX, JEAN, LUSKIN, MITCHELL & RAPPAZ, JACQUES.....	137
MCCORMICK, STEPHEN F.	A Mesh Refinement Method for $Ax = \lambda Bx$	485
MCCULLAGH, PETER	A Rapidly Convergent Series for Computing $\psi(z)$ and Its Derivatives.....	247
MAHONEY, J. F.	Partial Fraction Evaluation by an Escalation Technique.....	241
MERCIER, B., OSBORN, J., RAPPAZ, J. & RAVIART, P. A.	Eigenvalue Approximation by Mixed and Hybrid Methods....	427
MOSSIGE, SVEIN	Algorithms for Computing the h -Range of the Postage Stamp Problem.....	575
MUNZ, HARRY	Uniform Expansions for a Class of Finite Difference Schemes for Elliptic Boundary Value Problems.....	155
OSBORN, J.	See: MERCIER, B., OSBORN, J., RAPPAZ, J. & RAVIART, P. A.....	427
OSHER, STANLEY	See: ENGQUIST, BJORN & OSHER, STANLEY.....	321
PIRONNEAU, OLIVIER	See: BARDOS, CLAUDE, BERCOVIER, MICHEL & PIRONNEAU, OLIVIER.....	119
POLLARD, JOHN M.	See: BRENT, RICHARD P. & POLLARD, JOHN M.....	627
RAPPAZ, J.	See: MERCIER, B., OSBORN, J., RAPPAZ, J. & RAVIART, P. A.....	427
RAPPAZ, JACQUES	See: DESCLOUX, JEAN, LUSKIN, MITCHELL & RAPPAZ, JACQUES.....	137
RAVIART, P. A.	See: MERCIER, B., OSBORN, J., RAPPAZ, J. & RAVIART, P. A.....	427
RICE, JOHN R., HOUSTIS, ELIAS N. & DYKSEN, WAYNE R.	A Population of Linear, Second Order, Elliptic Partial Differential Equations on Rectangular Domains. Part I.....	475
RICHTER, GERARD R.	Numerical Identification of a Spatially Varying Diffusion Coefficient.....	375
RIELE, HERMAN J. J.	Hyperperfect Numbers With Three Different Prime Factors...	297
ROLEFF, K.	See: GLASHOFF, K. & ROLEFF, K.....	233
SCHIPPERS, H.	See: HEMKER, P. W. & SCHIPPERS, H.....	215

AUTHOR INDEX

669

Author	Title	Page
SCHNEIDER, CLAUD SHAMPINE, L. F.	Product Integration for Weakly Singular Integral Equations Type-Insensitive ODE Codes Based on Implicit A-Stable Formulas.....	207 499
SHANKS, DANIEL & WILLIAMS, H. C.	Gunderson's Function in Fermat's Last Theorem.....	291
SHEPHERD, M. M. & LAFRAMBOISE, J. G.	Chebyshev Approximation of $(1 + 2x)\exp(x^2)\operatorname{erfc} x$ in $0 < x < \infty$	249
SLOAN, IAN H.	Quadrature Methods for Integral Equations of the Second Kind Over Infinite Intervals.....	511
STOTHERS, W. W.	Subgroups of Finite Index in a Free Product With Amal- gamated Subgroup.....	653
SWARTZ, BLAIR	See: de BOOR, CARL & SWARTZ, BLAIR.....	1
SWARTZ, BLAIR	See: de BOOR, CARL & SWARTZ, BLAIR.....	21
TADMOR, EITAN	See: GOLDBERG, MOSHE & TADMOR, EITAN.....	603
TAL-EZER, HILLEL	See: HARTEN, AMIRAM & TAL-EZER, HILLEL.....	353
THOMAS, K. S.	Galerkin Methods for Singular Integral Equations.....	193
THOMÉE, VIDAR	See: ARNOLD, DOUGLAS N., DOUGLAS, JIM JR. & THOMÉE, VIDAR.....	53
TROCHU, F.	See: DELFOUR, M., HAGER, W. & TROCHU, F.....	455
WEINTRAUB, SOL	A Large Prime Gap.....	279
WILLIAMS, H. C.	A Numerical Investigation Into the Length of the Period of the Continued Fraction Expansion of \sqrt{D}	593
WILLIAMS, H. C.	Some Results Concerning Voronoi's Continued Fraction Over $\mathbb{Q}(\sqrt[3]{D})$	631
WILLIAMS, H. C.	See: SHANKS, DANIEL & WILLIAMS, H. C.....	291
WINTHER, RAGNAR	A Stable Finite Element Method for Initial-Boundary Value Problems for First-Order Hyperbolic Systems.....	65
WRIGGE, STAFFAN	Calculation of the Taylor Series Expansion Coefficients of the Jacobian Elliptic Function $\operatorname{sn}(x, k)$	555
ZASSENHAUS, HANS	See: CANTOR, DAVID G. & ZASSENHAUS, HANS.....	587